

ABSTRACT OF THE DISCLOSURE

Obtained are a carbon thin body having a structure making it possible to produce a planar electron source in a simple manner; a process for producing the carbon thin body; and an electric field emission type electron source using the carbon thin body. A carbon thin body that has a given thickness and is in the form of a thin layer having a front surface and a back surface, wherein at least in the front surface portion a curved wall is continuous, as is viewed in plan, to form an approximately netlike structure.

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